

Executive Summary:

A construction inspection was performed on the Epping terminal 1.5 miles east of Epping, ND in Williams County. Deficiencies and/or follow-up actions are identified on potentially five items.

Site/Project Location: Epping terminal/Epping ND

Date of Inspection: 1 November 2016

Observed Work / Weather Conditions

Visit occurred 1:10 pm to 1:40 pm. Partly cloudy, wind west 7-10 mph. No precipitation. Temperature 43°F.

Robert Welch escorted Keitu's staff during the inspection and answered questions. He outlined current status of construction as well as plans to complete project. Matrix hydro tested the tanks in early September. Both are internally coated and are considered complete. Electrical subcontractors are at the site installing power and instrumentation connections. Site layout i.e. tank locations different than submitted in application but within approved boundaries. Perimeter chain link security fence largely installed. Waiting on their clients to install connecting pipelines to the site.

Topsoil Management / Condition / Erosion Control / Storm Water Management

A 3+ acre disturbance immediately north of site beyond approved PSC facility boundaries noted. Site civil work contractor JMAC leased land from owner to create borrow pit to supply suitable soil for construction due to poor quality soils/failed compaction tests during project construction. All grade work was reported complete.

Epping area received 0.5 inches of rain on 10/31/16. Standing water observed in water collection areas. Some internal areas were muddy. Few stormwater BMPs noted despite lack of vegetative cover throughout site. No evidence of sediment runoff noted. Minor rills noted along north site boundary.

Based on desktop study of historical aerial photos, prior drainage to site was largely to the northeast, prior to construction. Site work appears to have altered flow toward west and south along County Road 8 / 60th St NW including permanently partially filling a prior existing wetland area, 23,800 sq ft estimated impact.

Vegetation Condition

Grade work complete including north site boundary up to and through existing tree line. Per info from prior January 2016 inspection, no trees were scheduled for removal. Site rep repeated claim no trees were impacted at this site. Bare ground throughout except scoria beneath pipe alleys.

Depth of Cover / Road Crossings / River Crossings / Riparian Condition at HDD Bore Sites

No open trenches. No HDD bore operations in progress.

Deficiencies

Soil borrow area outside of approved area as well as soil backfill to wetland and work zone on east side of site. Trees have also been removed despite reports to contrary. See 2016 aerial photo. If the northeast wetland is US ACE jurisdictional, a permit is required and currently not on file. Threat of sediment discharge to roadside ditches remain but "hard freeze" conditions likely in near future.

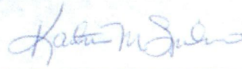
Actions Taken/To Be Taken

During "As Built" inspection, focus on sediment/BMP to roadside ditches; report borrow area and wetland disturbance to PSC. Verify special SW event inspection within 48 hours of 10/31/16. Verify tree mitigation.

Keitu Inspector: RJM, HJM

Reviewed by Project Lead:

Report Submitted: 9 November 2016



235 PU-14-842 Filed: 11/9/2016 Pages: 6
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Report Photo #1 "Trees along North Property Line"



Report Photo #2 "Process Area"



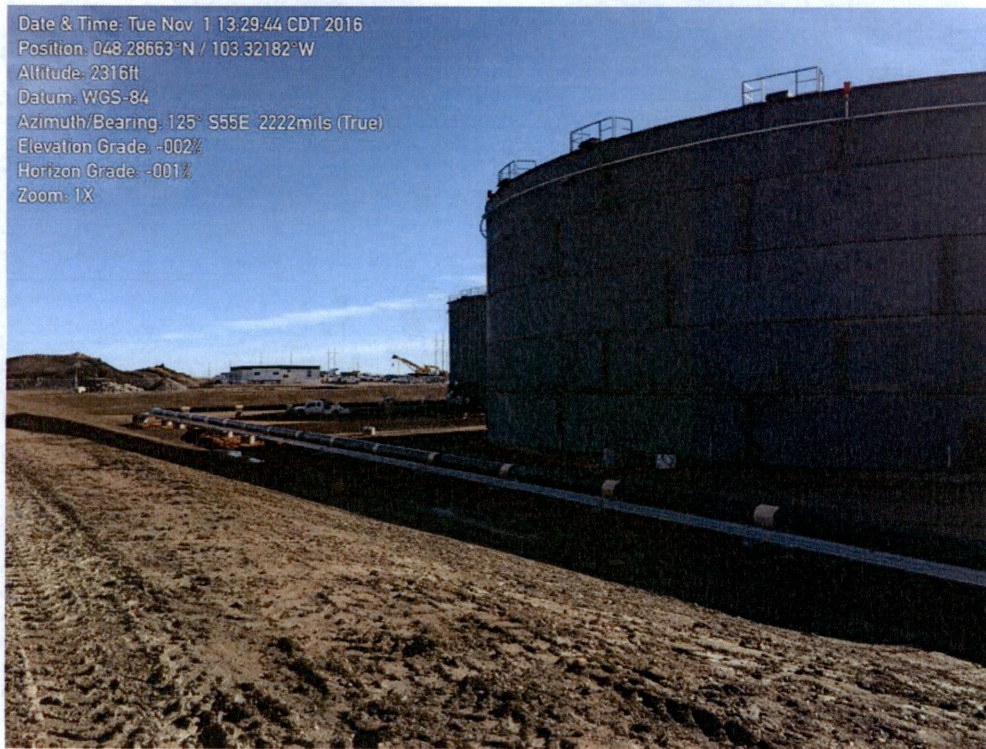
Report Photo #3 "Tanks"



Report Photo #4 "Pipeline Tie-In"

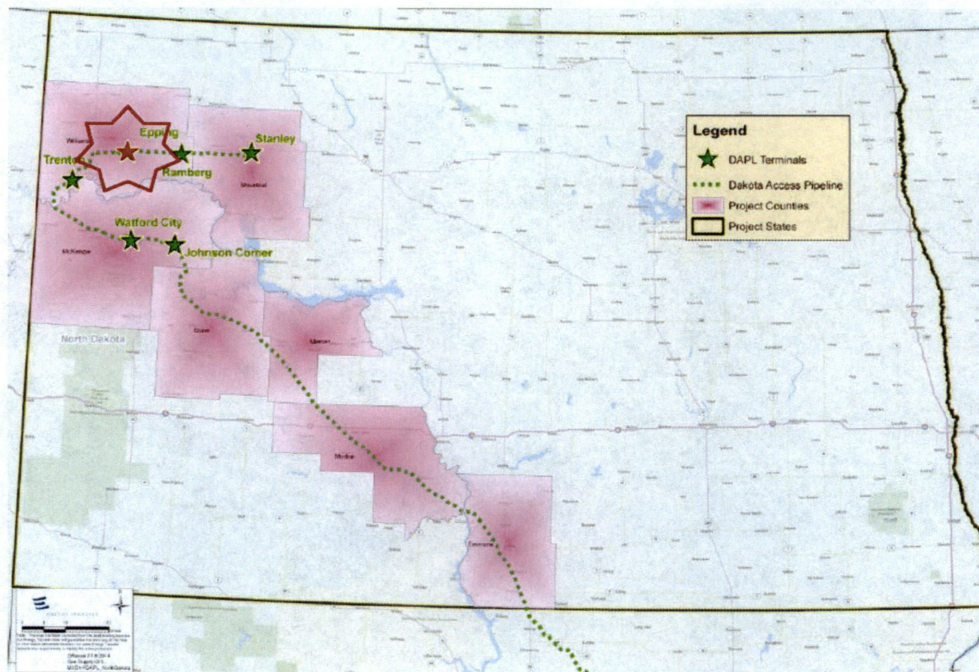


Report Photo #5 "Possible Wetland Infill" (Area Along Left Photo Border)

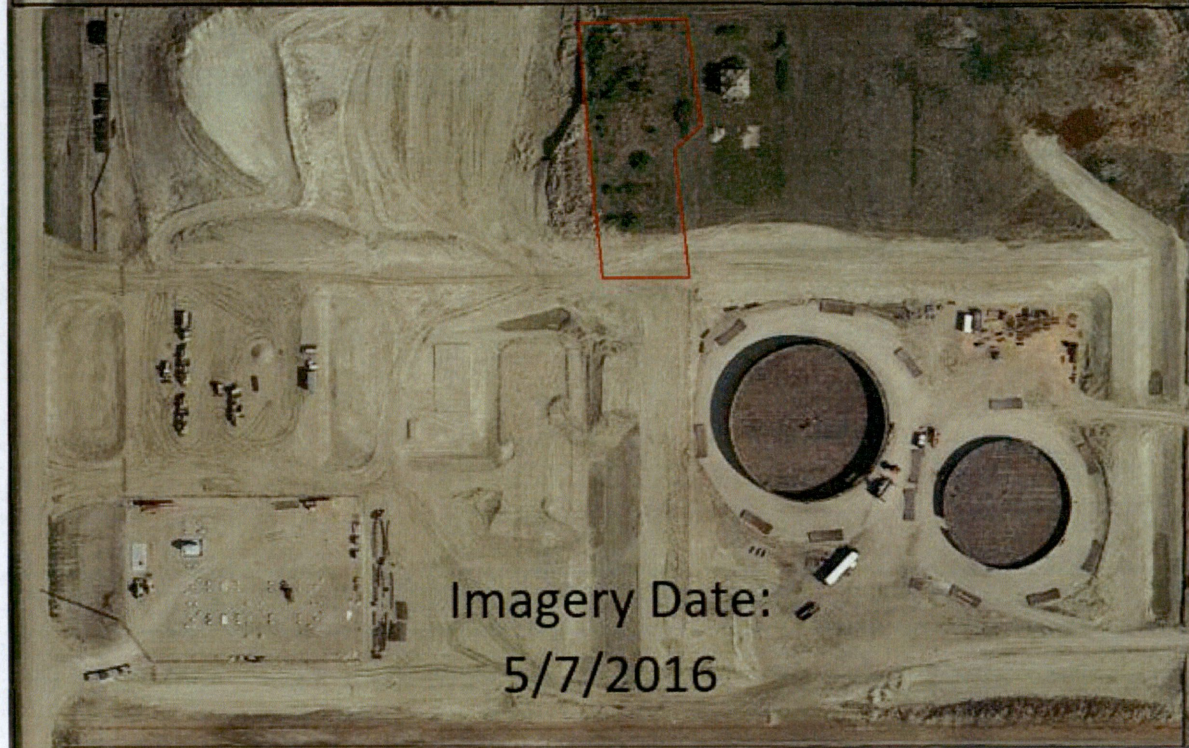
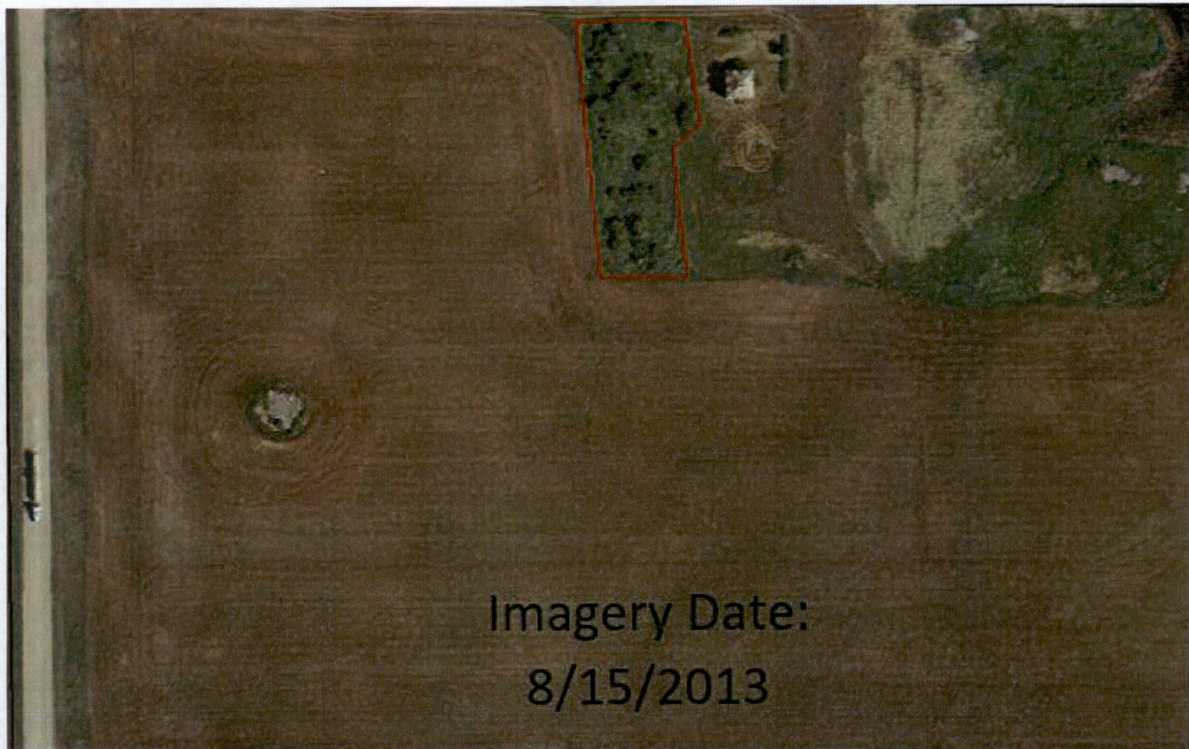


Project Map Site Location:

Epping, ND



Aerial Photos of Terminal Site (Note Before and After Treed Area Shown in Red):



Aerial Photos of Terminal Site Depicting Work Areas & Disturbances Outside of Approved Area

